

# **GPS Data to Map Corona High-risk Zones**

## Why in News

Recently, the **Brihanmumbai Municipal Corporation** (BMC) has decided to use **Global Positioning System (GPS) data to map high-risk zones** in the city and the number of positive cases in the wake of the COVID-19 pandemic.

## **Key Points**

- Till now, BMC had refrained from revealing details pertaining to COVID-19-afflicted patients to mitigate fear and prevent stigmatization.
- However, with a spike in the numbers, <u>lockdown</u> and quarantine violations, the civic body has
  decided to map the high-risk zones to alert citizens to stay away from these areas and follow
  lockdown instructions.
- Ward officers will ensure mandatory home-delivery of essentials like medicines and grocery items to restrict citizens movement in these zones.
- Other initiatives:
  - To strengthen the healthcare facilities, final-year medical and nursing students will be drafted into its workforce and given charge of OPDs and administrative duties at various civic-run hospitals.
  - To decongest major hospitals and effectively use isolation beds for patients, BMC has decided to categorise patients based on the three categories-
    - asymptomatic patients below 55 years and without any co-morbidity.
    - asymptomatic or mildly symptomatic patients above 55 years.
    - symptomatic patients.

#### **Global Positioning System**

- It is a Global Navigation Satellite System (GNSS), used to determine the ground position of an object.
- It is a US-owned utility that provides users with positioning, navigation, and timing (PNT) services.
- Services Provided:
  - The civilian service is freely available to all users on a continuous, worldwide basis.
  - The military service is available to US and allied armed forces as well as approved Government agencies.
- Other GNSS include <u>European Union's</u> Galileo, Russia's GLONASS, China's BeiDou Navigation
   Satellite System and India's Navigation in Indian Constellation (NavIC).

### **Navigation in Indian Constellation**

- It has been developed by the <u>Indian Space Research Organization</u> (ISRO).
- The main objective is to provide reliable position, navigation and timing services over India and its neighbourhood

- It is named after Indian fishermen and navigators and will provide two types of services-
  - Standard Positioning Service (SPS) is meant for the general public.
  - Restricted Service (RS) is an encrypted service meant for authorised users and agencies.
- Unlike the widely used **GPS which includes 24 satellites, NavIC has 7 satellites** and their range is within India and its adjoining regions extending up to 1,500 km from the country's border.
- Technically satellite systems with more satellites provide more accurate positioning information.
- However, compared to GPS which has a position accuracy of 20-30 metres, the NavIC is able to pinpoint location to an estimated accuracy of under 20 metres.



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